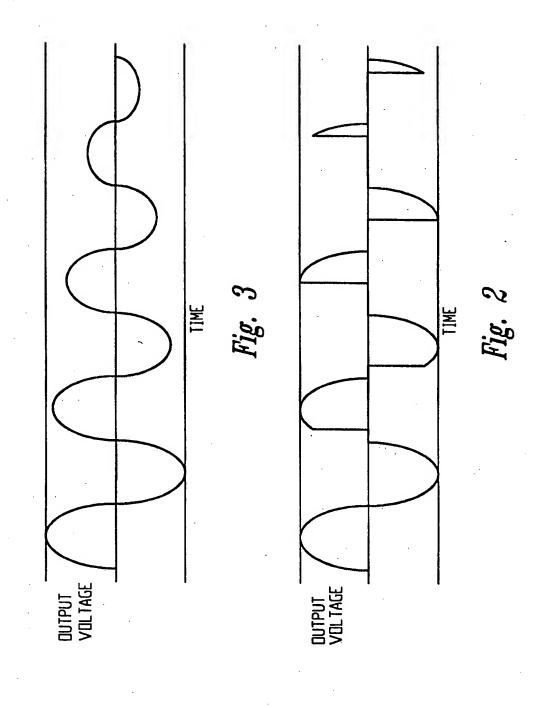
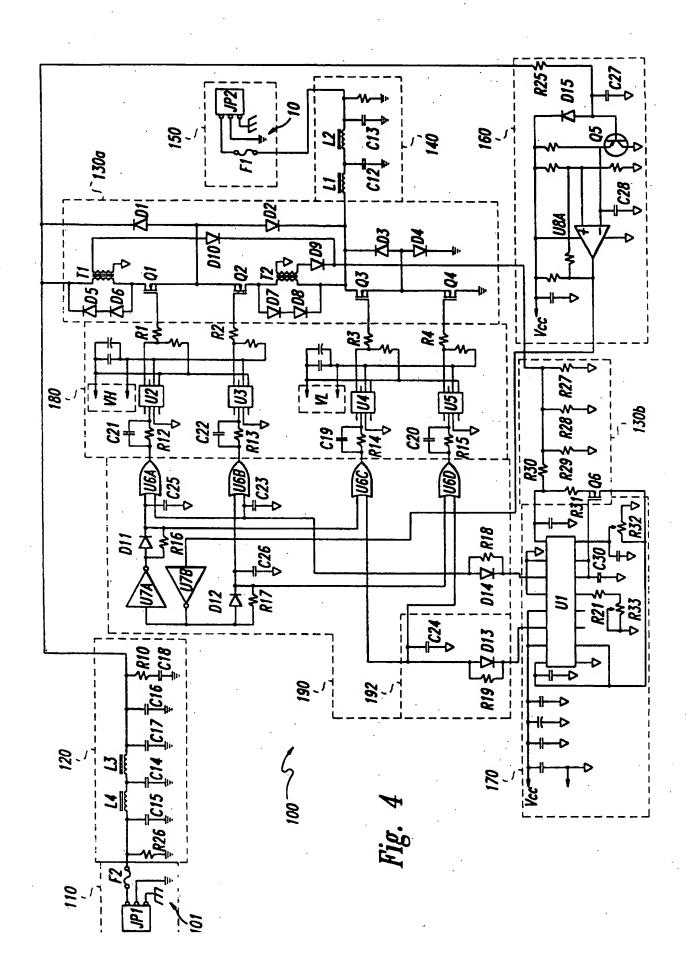
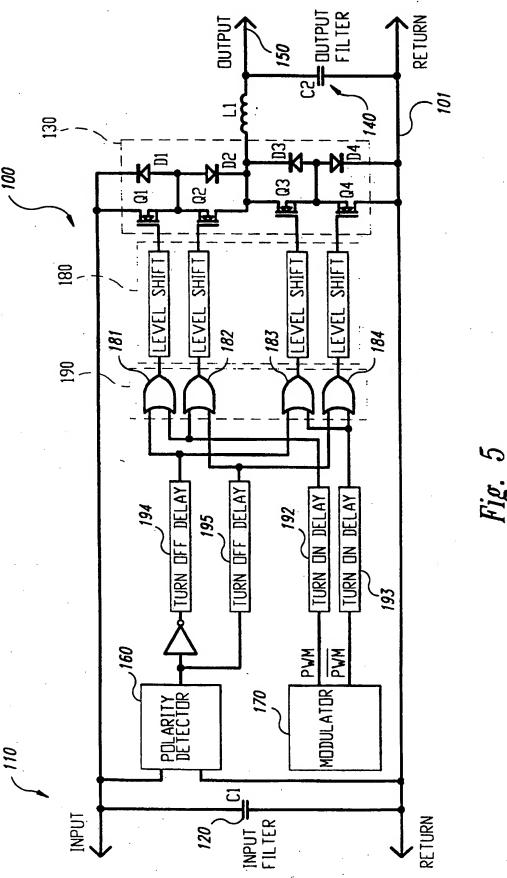
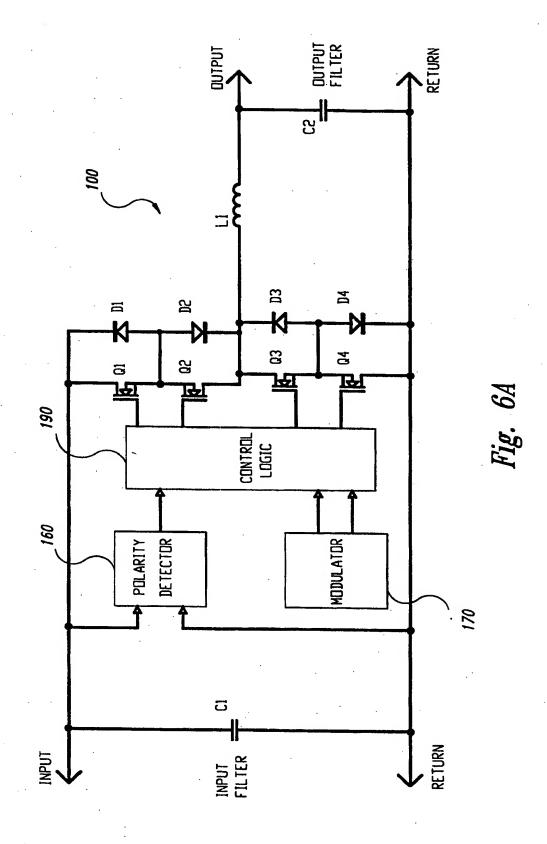


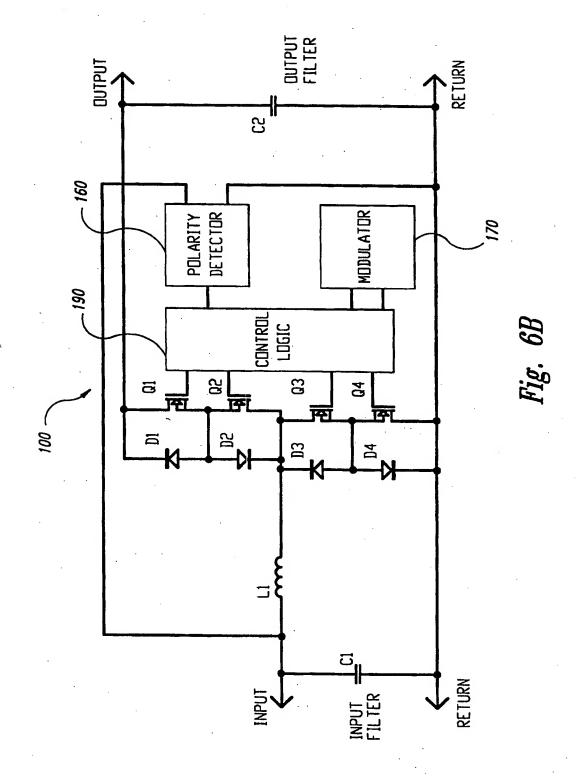
Fig. 1 (PRIOR ART)











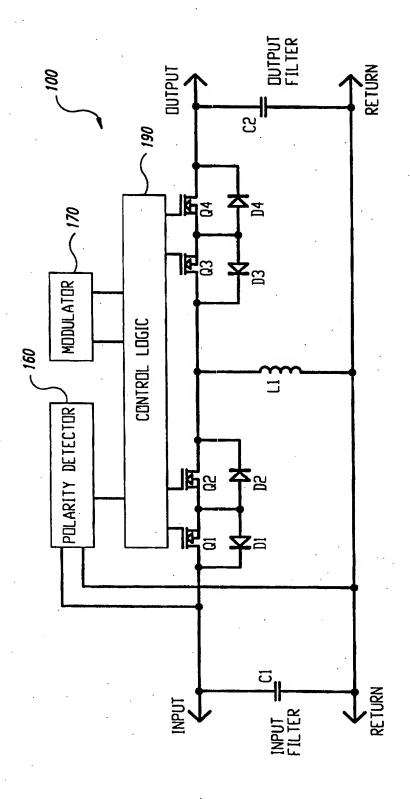
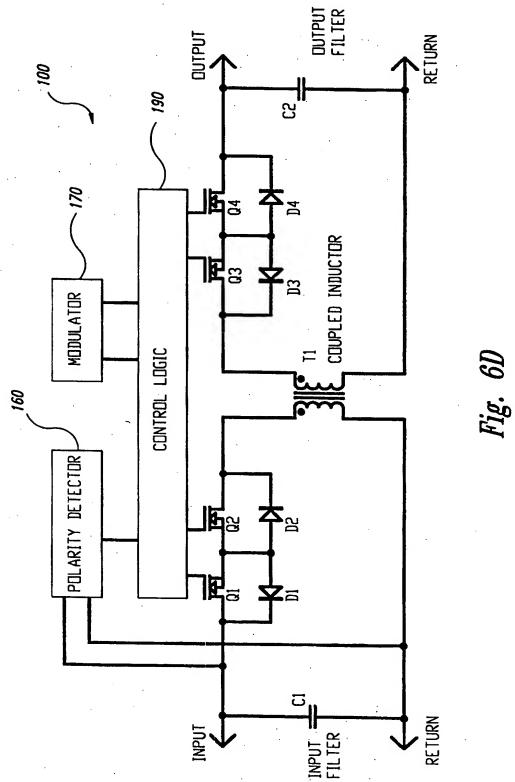


Fig. 6C



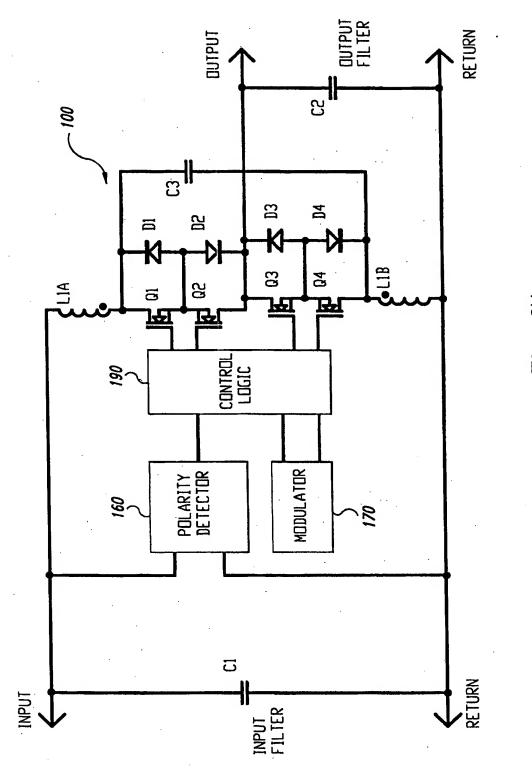


Fig. 7.4

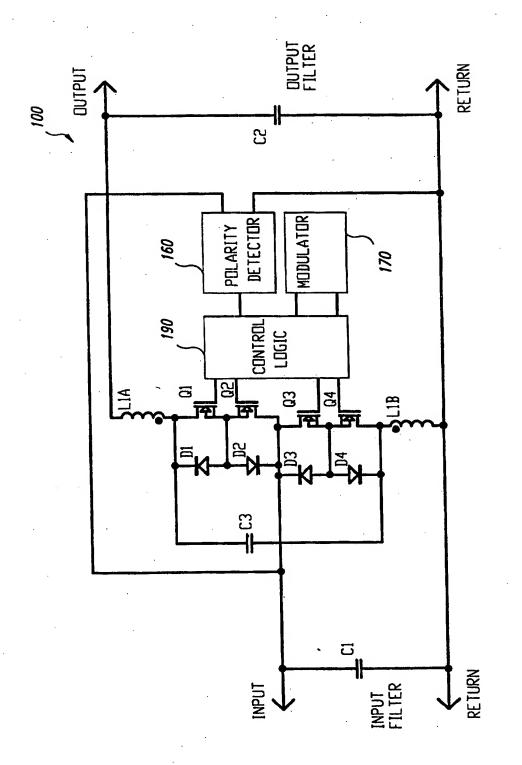


Fig. 7B

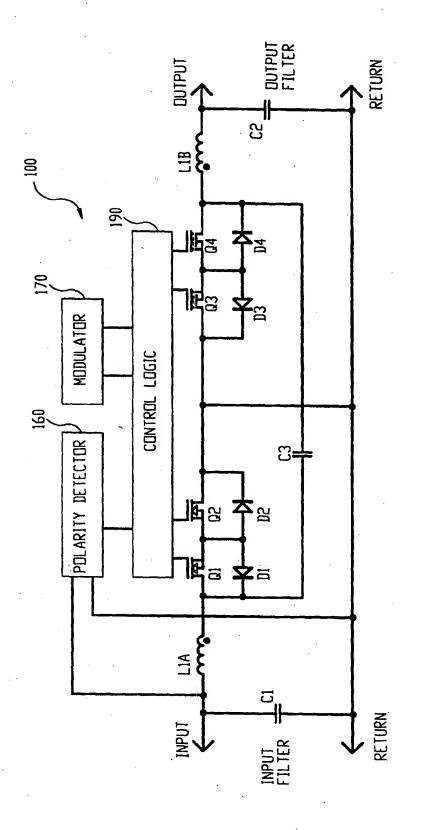
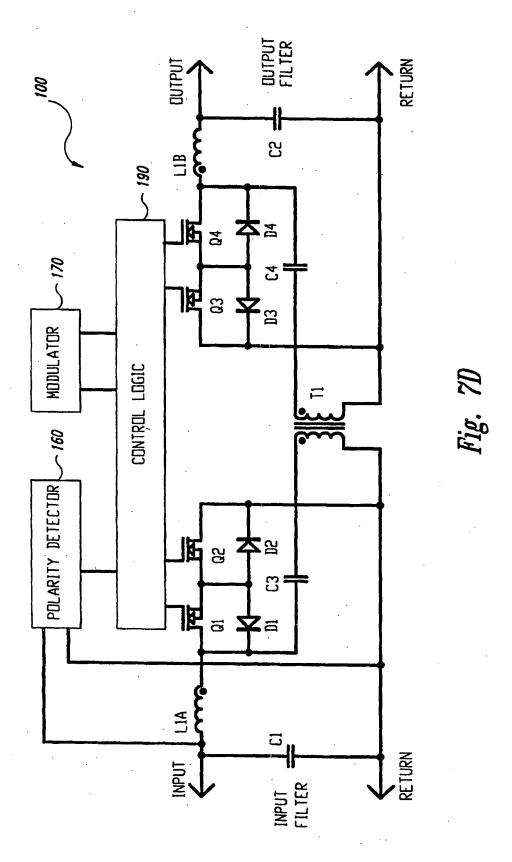
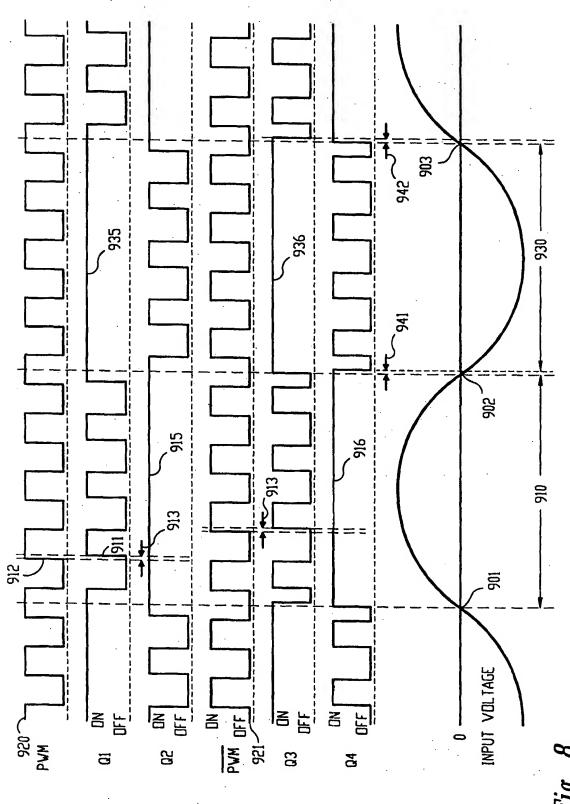
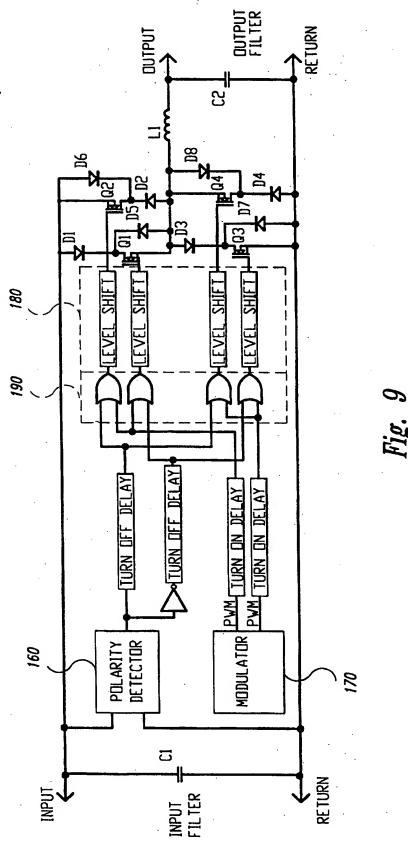


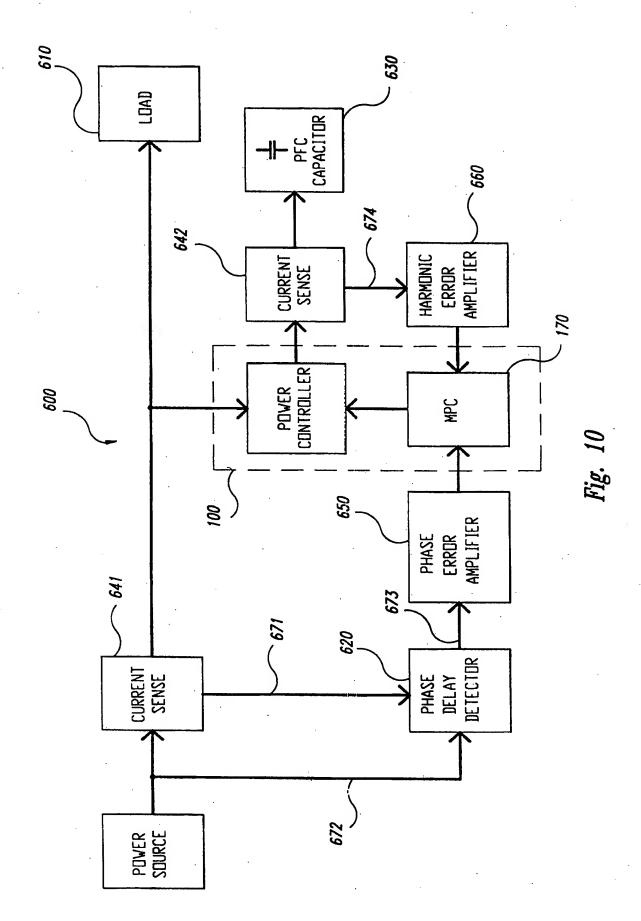
Fig. 7C

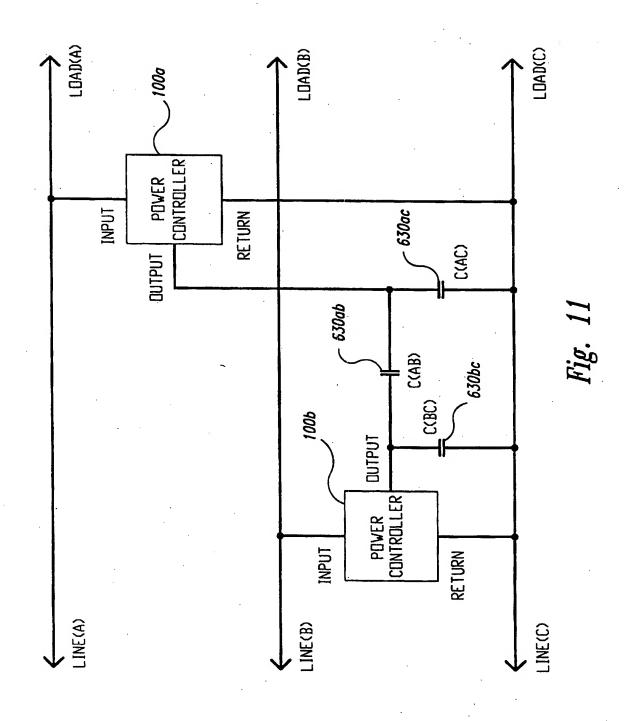




rig. o







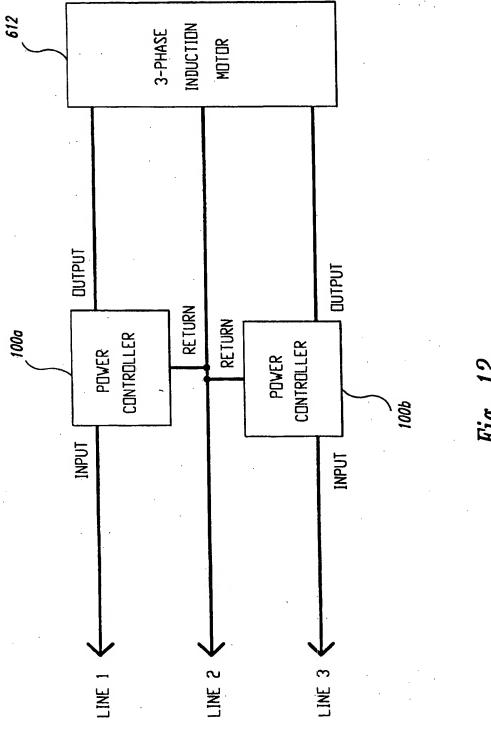


Fig. 12

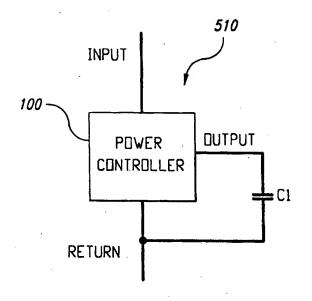


Fig. 13

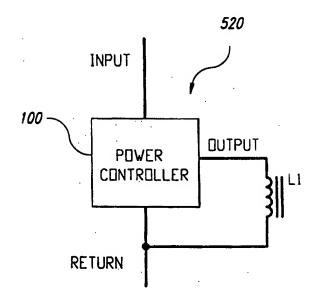


Fig. 14

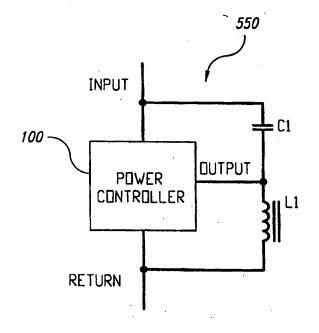


Fig. 15

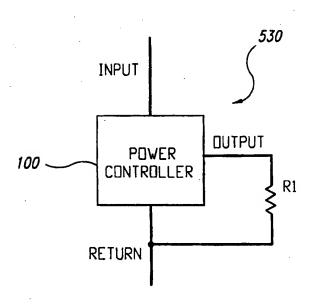


Fig. 16

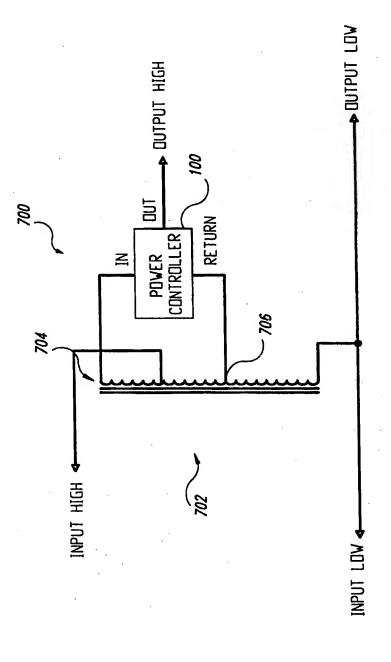


Fig. 17

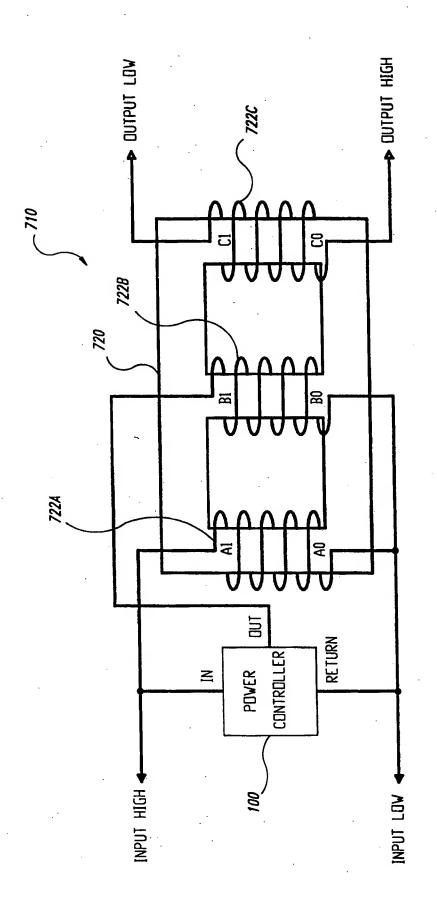


Fig. 18

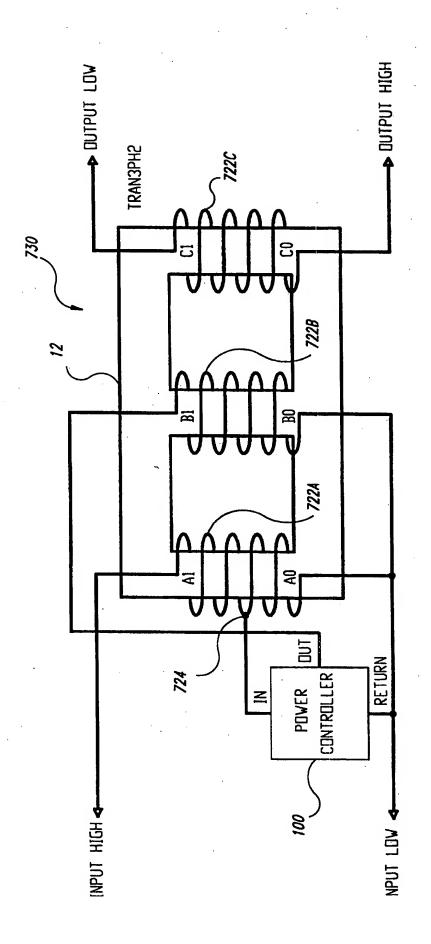


Fig. 19

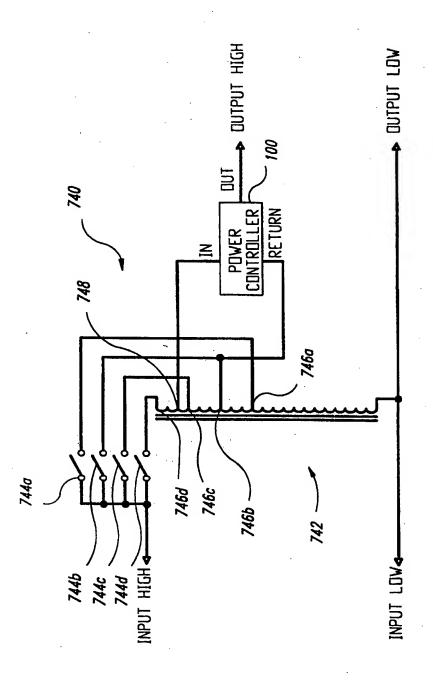


Fig. 20

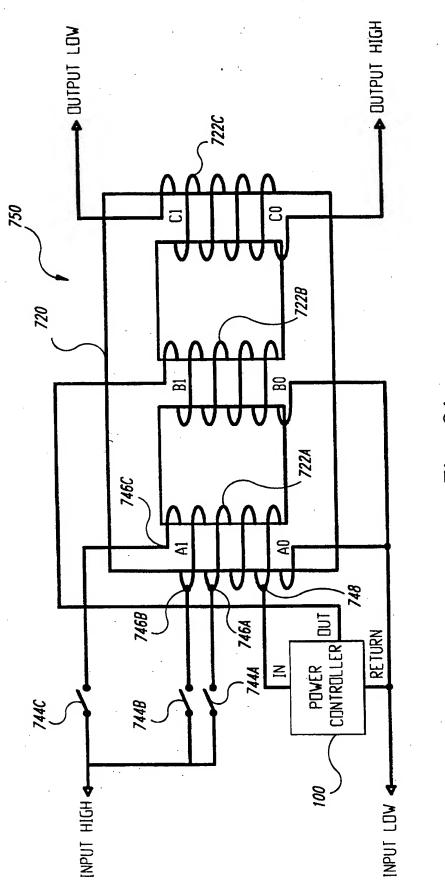


Fig. 21

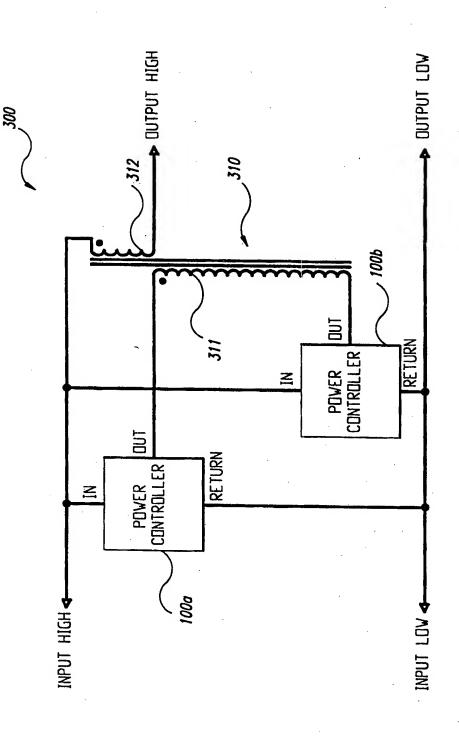
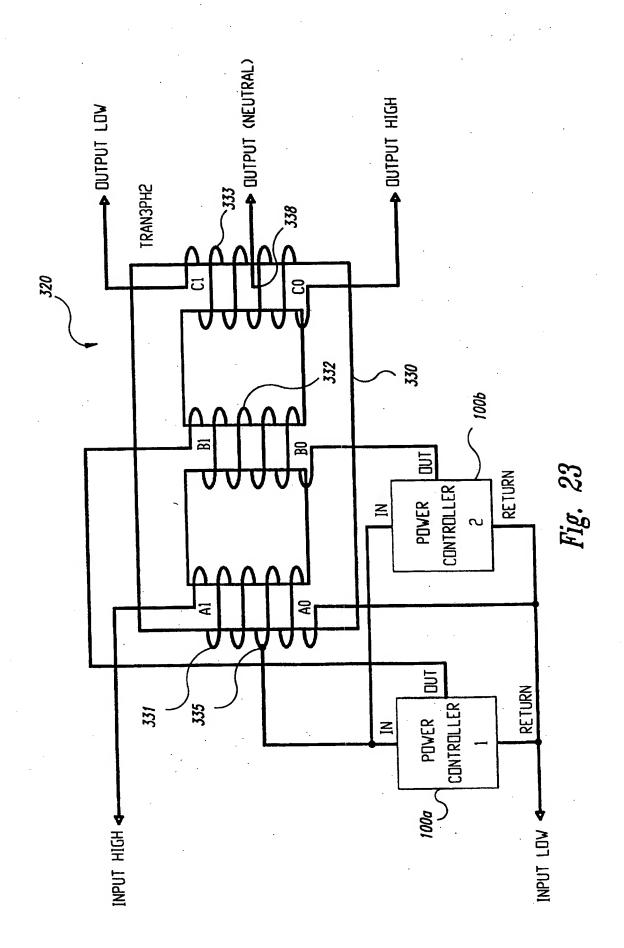
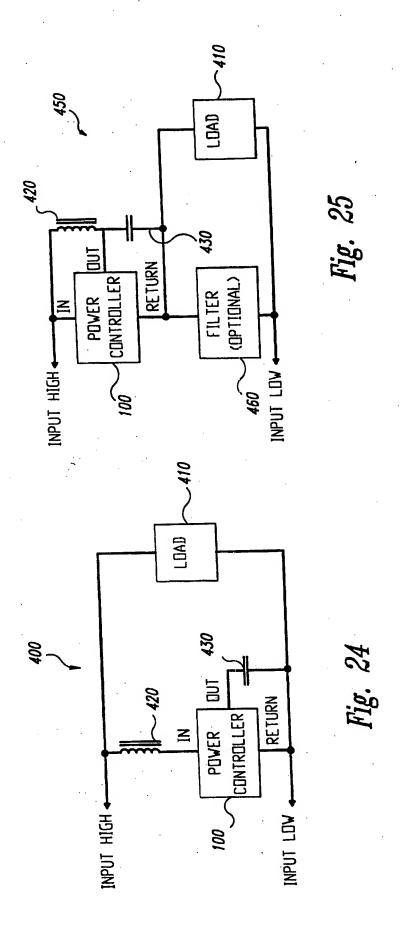


Fig. 22





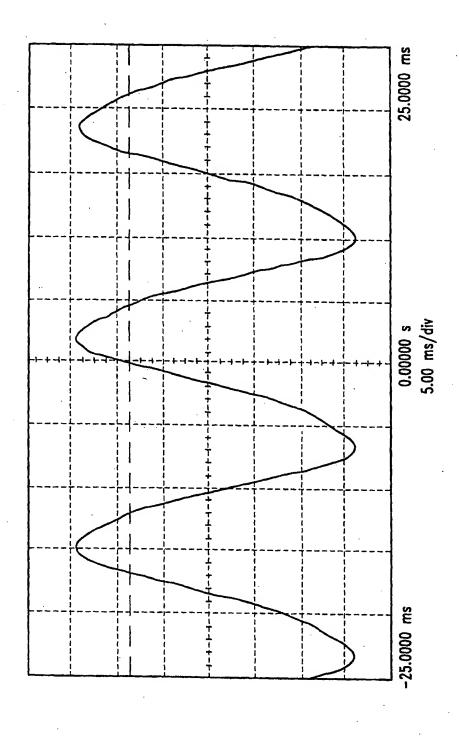


Fig. 264

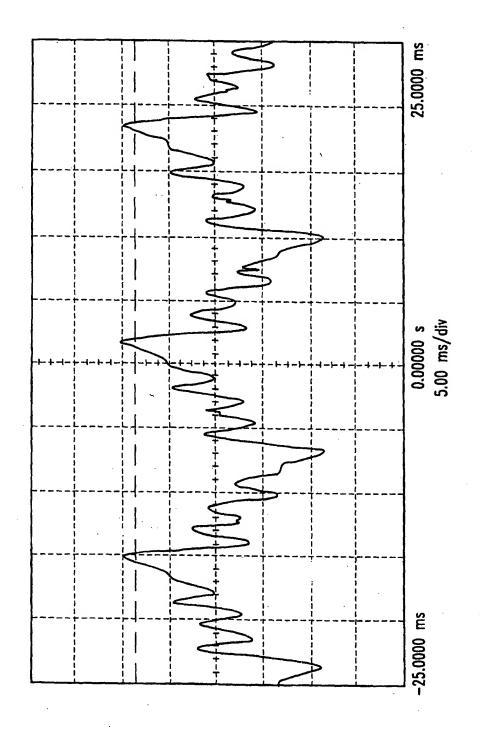


Fig. 26B

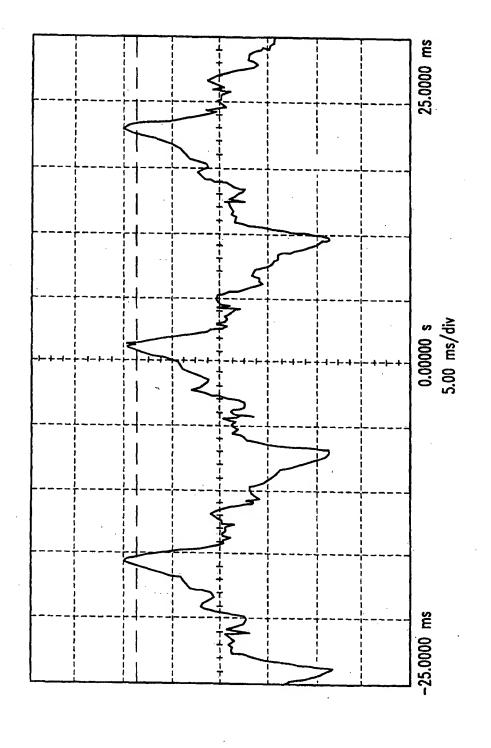


Fig. 26C

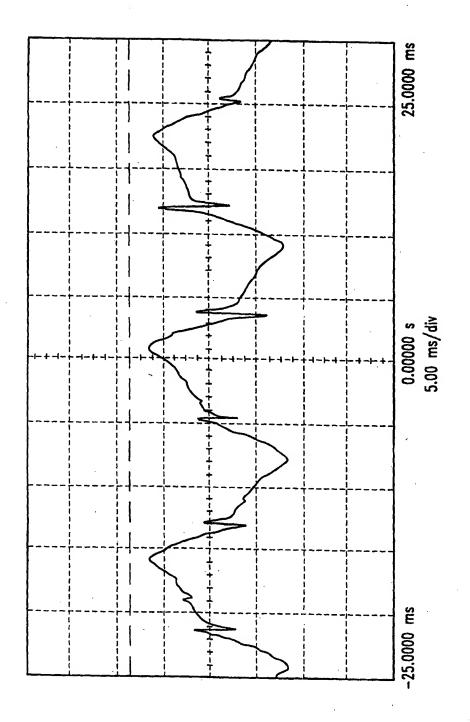


Fig. 26D

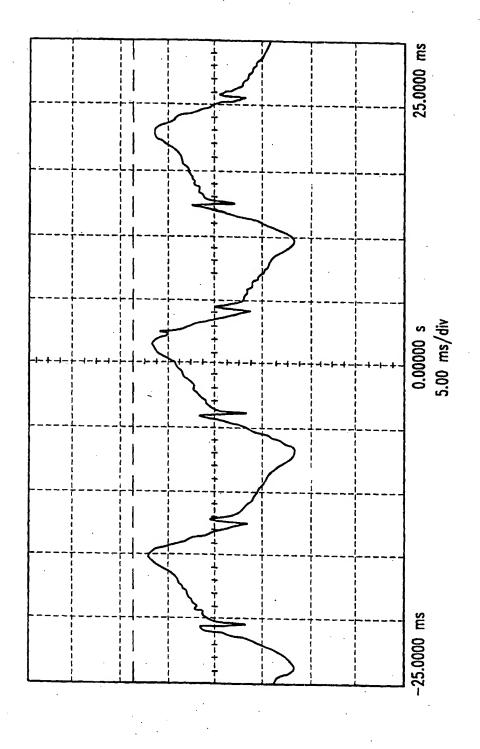
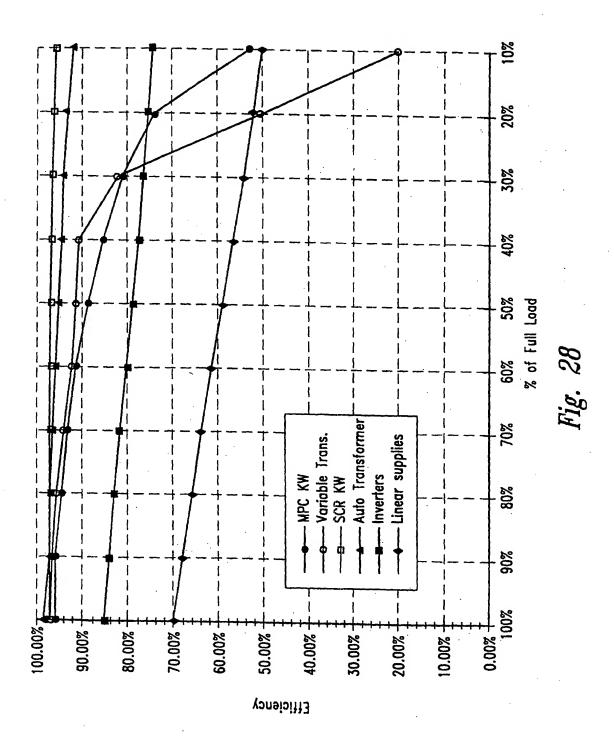


Fig. 26E

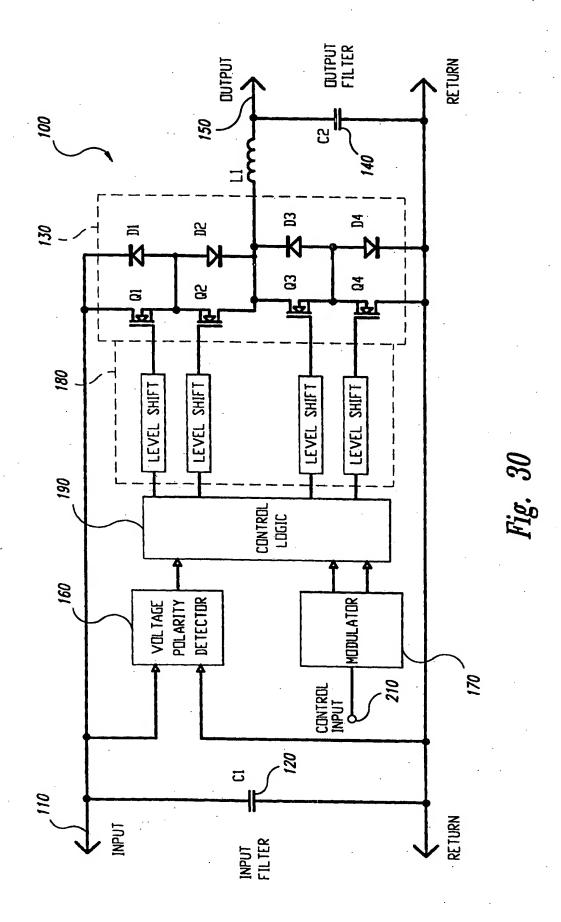
7		%THD-rmsA	1.85	1.85	1.85	1.9	1.9	1.95	2	2.2	2.3	3.4				%THD-rmsA	11.5	27.7	42.9	52.7	60.2	66.5	72.4	77.9	84.4		
Fig. 27		15		-	-		_	1	~		1	1	0.85			FF	0.9	0.94	0.83	0.73	0.63	0.52	0.42	0.32	0.22		
	Output	KVA	4.7	4.4	3.6	3	2.4	1.78	1.26	0.81	0.44	0.155	0		Output	KVA	5	4.9	4.6	4.2	3.9	3.5	3.1	2.7	2.2		
		KW	4.7	4.4	3.6	3	2.4	1.78	1.26	18.0	17 0	0.155	0			KW	5	4.6	3.8	3.1	2.5	<u>~</u>	1.3	0.9	0.5	Unstable	
		%THD-rmsA	3.8	4	4.2	4.7	5.5	6.5	00	10.3	13.2	15.8	16.7			%THD-rmsA	12.4	27.9	42.5	52.7	60.3	66.4	72.1	77.5	84.2		
		FF	0.97	0.97	0.97	0.96	0.95	0.93	0.89	0.81	0.65	0.4	0.15			FF	0.39	0.94	0.84	0.73	0.63	O. 12.	0.43	0.34	0.24		
	Input	KVA	5	4.8	3.9	3.3	2.7	2.2	1.65	121	6.0	0.72	99.0		Input	KVA	5.1	5	4.7	4.3	4	3.6	3.2	2.8	2.2	Unstable	
MPC		МX	4.9	4.6	3.8	3.2	2.6	2	1.47	0.98	0.59	0.29	0.1			KW	5.1	4.7	3.9	3.2	2.6	1.9	1.4	6.0	0.5		
Buck Mode MPC		KVA Eff	94.00%	91.67%	92.31%	90.91%		80.91%			48.89%	21.53%	0.00%	SCR		KVA E#	98.04%	%00.86	97.87%	82.67%	87.20%	97.22%	%88.96	96.43%	100.00%		
		KW Eff	95.92%	%59.36	94.74%	93.75%	92.31%	%00.68	85.71%	85.65%	74.58%	53.45%	0.00%			KW Eff	98.04%	97.87%	97.44%	%88.96	96.15%	94.74%	92.86%	100.00%	100.00%		
		% of range	100%	%06	%08	%0/	%09	%05	40%	30%	20%	10%	%0			% of range	%001	%06	%08	%0/	%09	%05	40%	30%	20%	10%	%0
120		V AC rms	120	801	96	\$	72	09	48	36	24	12	0			V AC rms	120	188	98	\$	72	69	48	36	24	12	0



20% 30% 40% 60% 50% % of Full Load - SCR PF - SCR % THD rmsA - MPC Input PF - MPC Input PF 70% 80% 20% 100 8 8 20 9 20 30 20 2 0 40

Total Harmonic Distortion & PF (X100)

10%



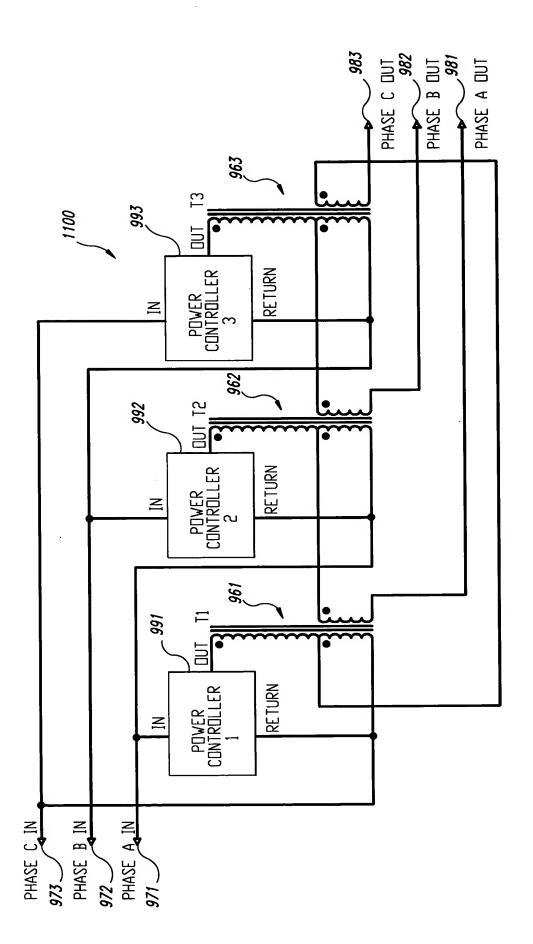


Fig. 31

